

<b>FORM PTO-1449/A and B (Modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			APPLICATION NO.: 09/925,194		ATTY. DOCKET NO.: S1448.70000US00	
			FILING DATE: August 8, 2001		CONFIRMATION NO.: 4327	
			APPLICANT: Awad et al.			
			GROUP ART UNIT: 2124 2193		EXAMINER: Chat C. Do	
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#### U.S. PATENT DOCUMENTS


Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
CD		5,117,418		Chaffee et al.	05-26-1992
CD		5,329,587		Morgan et al.	07-12-1994
CD		5,526,426		McLaughlin	06-11-1996
CD		5,912,966		Ho	06-15-1999
CD		6,246,773	B1	Eastty	06-12-2001
CD		6,622,118	B1	Crooks et al.	09-16-2003
CD		6,735,304	B2	Hasegawa	05-11-2004
CD		2002/0114445	A1	Benesty et al.	08-22-2002
CD		2003/0074381	A1	Awad et al.	04-17-2003
CD		2003/0031242	A1	Awad et al.	02-13-2003
CD		2003/0072362	A1	Awad et al.	04-17-2003

#### FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
CD		EP	0 709 958	A1	AT&T Corporation	05-01-1996	
CD		EP	0 982 861	A2	STMicroelectronics, Inc.	03-01-2000	

#### OTHER ART — NON PATENT LITERATURE DOCUMENTS

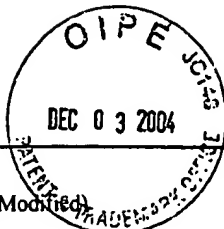
Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)

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		Number	Kind Code		
CD		5,375,147		Awata et al.	12-1994
CD		6,437,932		Prater et al.	08-2002
CD		6,483,872		Nguyen, Thi N.	11-2002

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			

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Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	
CD		B. FARHANG-BOUROJENY, Adaptive Filters; Theory and Applications, John Wiley & Sons, Ltd., Chapter 12, pp. 413-437		
CD		WILLIAM H. PRESS, Numerical Recipes in C: the Art of Scientific Computing, Cambridge University Press, Chapters 1-2, pp. 1-99		
CD		SANRO ZLOBEC, "Linear Predictive Spectral Shaping for Acoustical Echo Cancellation", Department of Electrical Engineering, McGill University, Montreal, Canada, November 1995		

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